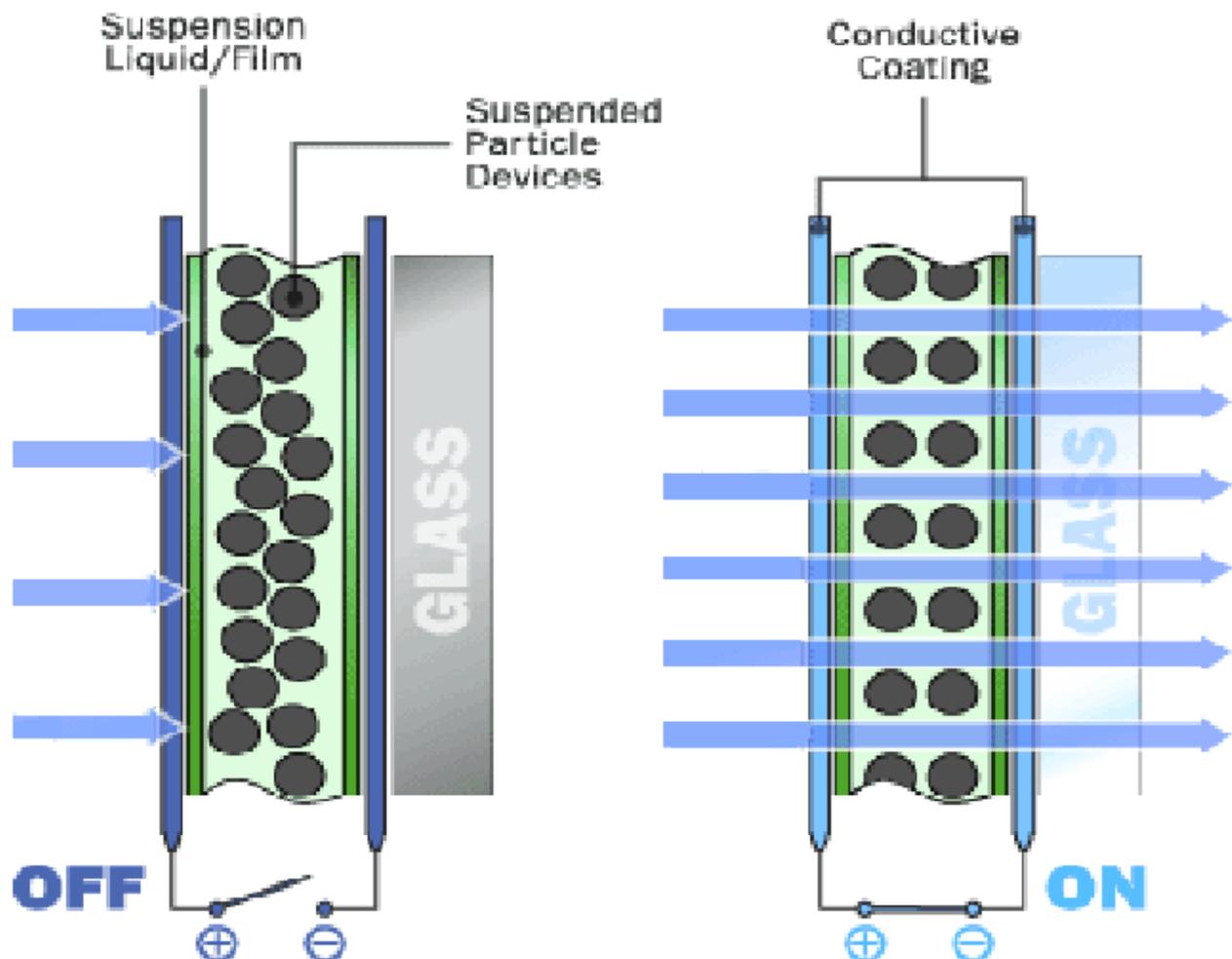


**Digital Printed PDLC film** (Polymer Dispersed Liquid Crystal) is consists of micron sized droplets of liquid crystal dispersed in an optically isotropic polymer matrix. It is used to switch the glass between transparent and opaque state, hence it is also known as Switchable film.

**Glass with PDLC film** will become vaporous due to the disordered arrangement of liquid crystal molecules after turning off the power. On the contrary, when the power is on, neatly organized molecules will make smart film present transparency.

By printed the pattern on the PDLC film make the architecture look more creative and designed oriented. Sun Global Glass printed pattern on the film by high temperature printing technology, the printed pattern will permanently attached to the film and not falling off.



## Specification of PDLC Smart Film

Max Length: 50m

Thickness: 0.5mm

Visible Light Transmittance: >85%(ON), >50%(OFF)

Parallel Light Transmittance: >80%(ON), <2%(OFF)

Haze: 7%(ON), 95%(OFF)

Visual Angle: >120%(ON)

Ultraviolet Rejected:  $\geq 98\%$ (ON&OFF)

Response Time: OFF-ON <10ms, ON-OFF <200ms

Power Consumption: <5W/M<sup>2</sup>(ON)

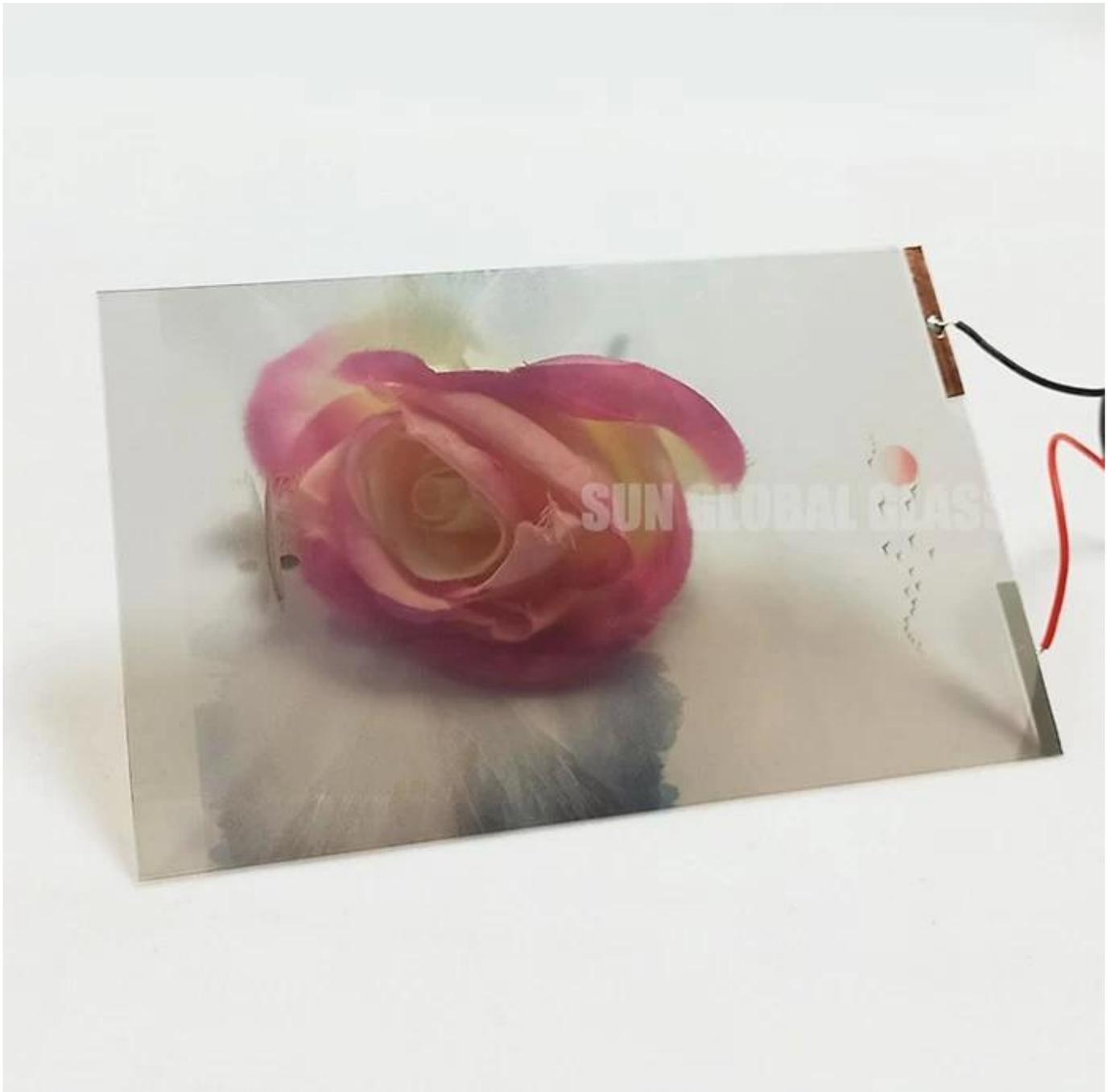
Working Temperature: 10°C —60°C

Storage Temperature: -10°C —60°C

Switch Frequency: >80 million times



SUN GLOBAL



### **Advantages of Digital Printed PDLC Smart Film**

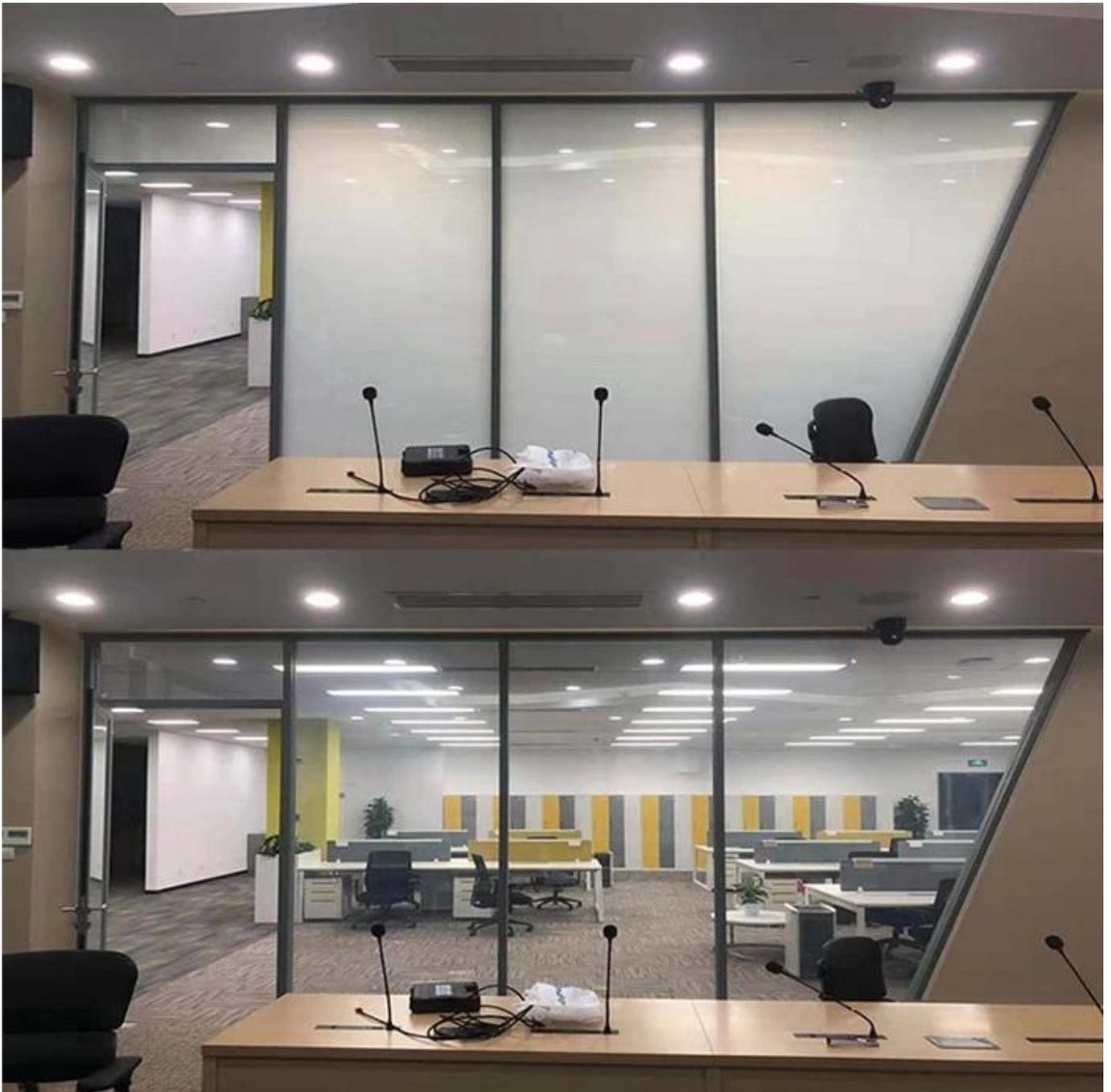
1. Flexible and can easily be trimmed on site.
2. It is hygienic and easy to keep clean. It is dust-free and therefore anti-allergic.
3. It is not subject to interior trends and timeless.

4. It is easy to remove without damaging the glass.

5. Sustainable, good for the environment.

6. Reduces materials-consumption used to make curtains, shutters, blinds, projection screens, and dry erase boards.

7. Printed pattern on the film by high temperature printing technology, the printed pattern will permanently attached to the film and not falling off.



## Applications



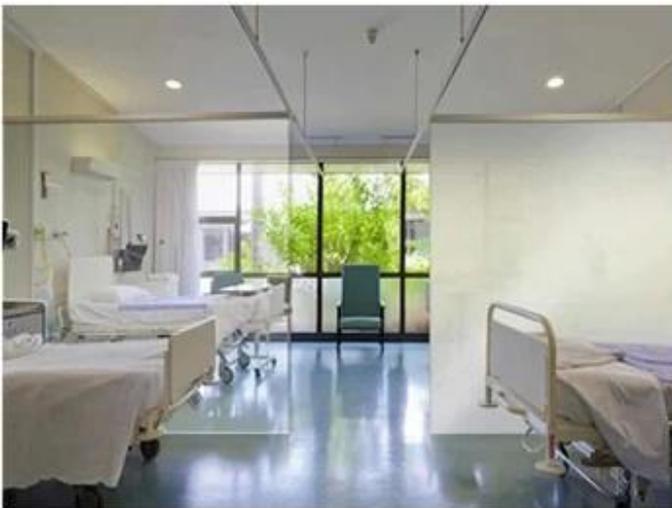
**Office Partition**

protect privacy and maximizing the space of modern office.



**Shower Room**

enjoy a privacy moments in a limited square footage.



**Hospital**

Prevent the spread of disease and noise



**Residential**

instead of curtains or blinds, make homes more energy efficient

## High quality export packing materials

1. Roll the film to save spacer and shipping cost
2. Packing in wooden case, position of film can be fixed
3. Using brand new, durable, seaworthy plywood case, prevent of pressure.

